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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-RW-2016-03-31-01-01

Date: 01/04/2016

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name: Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd.

Type of Mix GSB (Granular Sub Base)

Sample ID: 2016-03-31-01-01(c)

Date of test: 31/03/2016

Oven Dry Weight(gm) : 10050

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	910	910	9.05	90.95	80-100
26.5	1539	2449	24.37	75.63	55-90
9.5	1543	3992	39.72	60.28	35-65
4.75	1382	5374	53.47	46.53	25-55
2.36	1502	6876	68.42	31.58	20-40
0.425	1789	8665	86.22	13.78	10-25
0.075	821	9486	94.39	5.61	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	20.88%
2	Plasticity index, %	Non plastic

Note:-

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By:
Arunakshi.P

FOR CIVIL Pro.

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TEST RESULTS OF BITUMEN CORE
(IRC:SP:57-2000)

LAB ID: CP-RW-2016-08-15-01-01 **Date : 17/08/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix DBM (Dense Bituminious Macadam)

Sample ID : 2016-08-15-01-01

Date of test: 16/8/2016

Required thickness : DBM : 50 mm				
Sl. No	**Chainage (meter)**	**Location**	**Core Thickness (mm)**	**Density (g/cc)**
1	800	Center	51	2.42
2	1500	LHS	52	2.41

Note:-

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

LAB ID: CP-RW-2016-07-28-01-01 **Date : 30/07/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix : BC (Bituminous Concrete)

Sample ID : 2016-07-28-01-01

Date of test: 29/07/2016

AFTER EXTRACTION

Oven Dry Weight(gm) : 968

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	79-100
9.5	189	189	19.5	80.5	70-88
4.75	210	399	41.2	58.8	53-71
2.36	152	551	56.9	43.1	42-58
1.18	75	626	64.7	35.3	34-48
0.6	69	695	71.8	28.2	26-38
0.3	54	749	77.4	22.6	18-28
0.15	62	811	83.8	16.2	12-20
0.075	92	903	93.3	6.7	4-10
PAN	65	968	100	0.0	0

Note:-

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Prepared By:
SARITHA

FOR CIVIL PRO.

R KARTHIK RECHAN
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Technical Manager

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TEST RESULTS OF BITUMEN CONTENT FOR BC
(AS per IRC:SP:-11-1984)

LAB ID: CP-RW-2016-07-28-01-01 **Date : 29/07/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix : BC (Bituminous Concrete)

Sample ID : 2016-07-28-01-01

Date of test: 28/07/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	521	510
2	Weight of the sample After extraction	B	490	478
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.95	6.27
4	Average percentage	%	6.11	

Note:-
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

LAB ID: CP-RW-2016-07-27-02-01 **Date : 29/07/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix : BC (Bituminous Concrete)

Sample ID : 2016-07-27-02-01

Date of test: 28/07/2016

AFTER EXTRACTION

Oven Dry Weight(gm) : 965

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	79-100
9.5	136	136	14.1	85.9	70-88
4.75	152	288	29.8	70.2	53-71
2.36	280	568	58.9	41.1	42-58
1.18	82	650	67.4	32.6	34-48
0.6	89	739	76.6	23.4	26-38
0.3	40	779	80.7	19.3	18-28
0.15	22	801	83.0	17.0	12-20
0.075	80	881	91.3	8.7	4-10
PAN	84	965	100	0.0	0

Note:-

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TEST RESULTS OF BITUMEN CONTENT FOR DBM
(AS per IRC:SP:-11-1984)

LAB ID: CP-RW-2016-07-26-01-01 **Date: 27/7/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name: Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix : DBM (Dense Bituminous Macadam)

Sample ID : 2016-07-26-01-01

Date of test: 26/7/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	507
2	Weight of the sample After extraction	B	482	484
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.55	4.54
4	Average percentage	%	4.55	

Note:-
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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-RW-2016-07-26-01-01 **Date: 27/7/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name: Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix DBM (Dense Bituminous Macadam)

Sample ID : 2016-07-26-01-01

Date of test: 27/7/2016

AFTER EXTRACTION

Oven Dry Weight(gm) : 966

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	13	13	1.35	98.65	90-100
19	102	115	11.90	88.10	71-95
13.2	110	225	23.29	76.71	56-80
4.75	280	505	52.28	47.72	38-54
2.36	132	637	65.94	34.06	28-42
0.3	149	786	81.37	18.63	7-21
0.075	129	915	94.72	5.28	2-8
PAN	51	966	0.00	0	0

Note:-
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TEST RESULTS OF BITUMEN CONTENT FOR DBM
(AS per IRC:SP:-11-1984)

LAB ID: CP-RW-2016-07-25-01-01

Date: 26/07/2016

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name: Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix : DBM (Dense Bituminous Macadam)

Sample ID : 2016-07-25-01-01

Date of test: 25/7/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	512	508
2	Weight of the sample After extraction	B	487	483
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.88	4.92
4	Average percentage	%	4.90	

Note:-

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-RW-2016-07-25-01-01 **Date: 26/7/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name: Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix DBM (Dense Bituminous Macadam)

Sample ID : 2016-07-25-01-01

Date of test: 26/7/2016

AFTER EXTRACTION

Oven Dry Weight(gm) : 970

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	2	2	0.21	99.79	90-100
19	102	104	10.72	89.28	71-95
13.2	120	224	23.09	76.91	56-80
4.75	269	493	50.82	49.18	38-54
2.36	132	625	64.43	35.57	28-42
0.3	151	776	80.00	20.00	7-21
0.075	141	917	94.54	5.46	2-8
PAN	53	970	0.00	0	0

Note:-
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-RW-2016-06-15-01-02

Date: 8/7/2016

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name Widening of Doddabommasandra Main Road in Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Sample Type : M20 Drain Concrete

Age of the sample: 28 days Compressive Strength

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

Date of test: 7/7/2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/a	2016/06/15/01/02 (a)	M 20	9/6/2016	7/7/2016	150.62 X 150.82 X 151.37	22717	8.196	553.7	24.4	24.3
	1/b	2016/06/15/01/02 (b)	M 20	9/6/2016	7/7/2016	150.66 X 149.37 X 150.67	22554	8.167	544.8	24.2	
	1/c	2016/06/15/01/02 (c)	M 20	9/6/2016	7/7/2016	151.67 X 150.63 X 150.61	22846	8.162	556.9	24.4	

Note:-

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TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-RW-2016-06-01-01-03 **Date:30/6/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Sample Id : 2016-06-01-01-01

Type of sample Zuari 53grade

Reference to BIS codes: IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 4,5, 6):1988
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test: 2/6/2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	29.5%	Not specified
2	Initial Setting time	180 minutes	Not less than 30 minutes
3	Final Setting time	295 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	28.0N/mm^2	Not less than 23 N/mm2
	7 Days	38.5N/mm^2	Not less than 33 N/mm2
	28 Days	55.0N/mm^2	Min 43 N/mm2 Max 58 N/mm^2

Note:-
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

LAB ID: CP-RW-2016-06-26-01-01 Date : 27/06/2016

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix WMM (Wet Mix Macadam)

Sample ID: 2016-06-26-01-01(a)

Date of test: 26/06/2016

Oven Dry Weight(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	110	110	2.2	97.8	79-100
9.5	733	843	16.9	83.1	70-88
4.75	844	1687	33.7	66.3	53-71
2.36	569	2256	45.1	54.9	42-58
1.18	519	2775	55.5	44.5	34-48
0.6	578	3353	67.1	32.9	26-38
0.3	447	3800	76.0	24.0	18-28
0.15	411	4211	84.2	15.8	12-20
0.075	424	4635	92.7	7.3	4-10
PAN	365	5000	100	0.0	0

Note:-

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

LAB ID: CP-RW-2016-06-26-01-01 Date : 27/06/2016

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name Widening of Doddabommasandra Main Road In Ward No.10

Agency : M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Type of Mix WMM (Wet Mix Macadam)

Sample ID: 2016-06-26-01-01(b)

Date of test: 26/06/2016

Oven Dry Weight(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	85	85	1.7	98.3	79-100
9.5	673	758	15.2	84.8	70-88
4.75	908	1666	33.3	66.7	53-71
2.36	654	2320	46.4	53.6	42-58
1.18	398	2718	54.4	45.6	34-48
0.6	537	3255	65.1	34.9	26-38
0.3	566	3821	76.4	23.6	18-28
0.15	482	4303	86.1	13.9	12-20
0.075	333	4636	92.7	7.3	4-10
PAN	364	5000	100	0.0	0

Note:-

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TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-RW-2016-06-01-01-03

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore. **Date:9/6/2016**

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Sample Id : 2016-06-01-01-01

Type of sample Zuari 53grade

Reference to BIS codes: IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 4,5, 6):1988
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test: 2/6/2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	29.5%	Not specified
2	Initial Setting time	180 minutes	Not less than 30 minutes
3	Final Setting time	295 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	28.0N/mm^2	Not less than 23 N/mm2
	7 Days	38.5N/mm^2	Not less than 33 N/mm2
	28 Days	Test date due on 30/6/2016	Min 43 N/mm2 Max 58 N/mm^2

Note:-

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TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-RW-2016-05-03-01-03 **Date:2/6/2016**

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Widening of Doddabommasandra Main Road In Ward No.10

Agency: M/s. Prashanth Road Infra Projects & Developers Pvt.Ltd

Sample Id : 2016-05-03-01-01

Type of sample Zuari 53grade

Reference to BIS codes: IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 4,5, 6):1988
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test: 4/5/2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	30.5%	Not specified
2	Initial Setting time	155minutes	Not less than 30 minutes
3	Final Setting time	295 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 23 N/mm2
	7 Days	37.5N/mm^2	Not less than 33 N/mm2
	28 Days	54.5N/mm^2	Min 43 N/mm2 Max 58 N/mm^2

Note:-
The results pertain to the samples received and tested.
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By:
Arunakshi.P

FOR CIVIL PRO.
Date.....
R KARTHIK RECHAN
Authorized Signature
Technical Manager

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